

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A signal receiving apparatus for receiving a digital satellite broadcasting signal containing ~~at least one of~~ a scrambled first broadcast signal in a first format ~~and or~~ a scrambled second broadcast signal in a second format, said second format having a transport stream exhibiting a data structure including a timestamp and a transport stream packet length, said apparatus comprising:

signal receiving means for receiving said digital satellite broadcasting signal;

extracting means for extracting said scrambled first broadcast signal or said scrambled second broadcast signal from said digital satellite broadcasting signal;

storage means for storing a user's information representing authorization of the user to access the digital satellite broadcasting signal;

transmitting means for transmitting the user information from the storage means to a broadcast station;

descrambling means for descrambling said scrambled first broadcast signal or said scrambled second broadcast signal extracted by said extracting means if said user information represents authorization to access said digital satellite broadcasting signal;

judging means for judging whether said digital satellite broadcasting signal received by said signal receiving means is in the first broadcast signal format or in the second broadcast signal format;

generating means for generating an analog signal in accordance with the descrambled first broadcast signal and for adding to the analog signal a signal for suppressing copying of the analog signal if it is determined by the judging means that the digital broadcast signal satellite is in said first format;

first output means for outputting from an analog interface the analog signal generated in said generating means from an analog interface as the digital satellite output signal when said judging means judges that said received digital satellite broadcasting signal is in said first format;

conversion means for converting the data structure of the descrambled second broadcast signal by rearranging said timestamp and said packet length of said transport stream of the second broadcast signal when it is determined by the judging means that the digital satellite broadcast signal is in said second format to generate a third broadcast signal; and

second output means for outputting from a digital interface as the digital satellite output signal the third broadcast signal generated in said conversion means from a digital interface when said judging means judges that said received digital satellite broadcasting signal is in said second format[[;]]

~~storage means for storing a user's information, the user's information being a function of the digital satellite broadcasting signal;~~

~~transmitting means for transmitting the user information from the storage means to a broadcast station;~~

~~wherein the user information is used to determine access to the digital satellite broadcasting signal;~~

~~whereby said converting the data structure of the second broadcast signal includes rearranging a timestamp and a packet length of a transport stream of the second broadcast signal; and~~

~~wherein if said judging means judges that said received digital satellite broadcasting signal is in said first format, said analog signal is outputted from said first output means as the output of the digital satellite broadcasting signal, and if said judging means judges that said received digital satellite broadcasting signal is in said second format, said third broadcast signal is outputted from said second output means as the output of the digital satellite broadcasting signal.~~

2. (Original) The signal receiving apparatus as claimed in 1, wherein the digital satellite broadcasting signal is DSS(Direct Satellite System) broadcast signal, the first broadcast signal is an SD (Standard Definition) broadcast signal and the second broadcast signal is an HD (High Definition) broadcast signal.

3. (Original) The signal receiving apparatus as claimed in claim 1, wherein said digital interface is IEEE1394 interface.

4. (Canceled)

5. (Original) The signal receiving apparatus as claimed in claim 1, further comprising encrypting means for encrypting the third broadcast signal.

6. (Currently Amended) A signal receiving method for a signal receiving apparatus for receiving a digital satellite broadcasting signal containing ~~at least one of a~~ scrambled first broadcast signal in a first format ~~and or~~ a scrambled second broadcast signal in a second format, said second format having a transport stream exhibiting a data structure including a timestamp and a transport stream packet length, said method comprising the steps of:

receiving the digital satellite broadcasting signal;

extracting said scrambled first broadcast signal or said scrambled second broadcast signal from said digital satellite broadcasting signal;

storing a user's information representing authorization of the user to access the digital satellite broadcasting signal;

transmitting the user information from the storage means to a broadcast station;

descrambling said extracted scrambled first broadcast signal or said extracted scrambled second broadcast signal if said user information represents authorization to access said digital satellite broadcasting signal;

judging whether the received digital satellite broadcasting signal is in the first broadcast signal format or in the second broadcast signal format;

generating an analog signal and adding thereto a signal for suppressing copying thereof in accordance with the descrambled first broadcast signal when it is determined that the digital satellite broadcast signal is in the first broadcast signal format;

outputting from an analog interface the generated analog signal as the digital satellite output signal when said judging means judges that said received digital satellite broadcasting signal is in said first format;

converting the data structure of the descrambled second broadcast signal by
rearranging said timestamp and said packet length of said transport stream of the second
broadcast signal if it is determined that the digital satellite broadcast signal is in said second
format to generate a third broadcast signal; and

outputting from a digital interface as the digital satellite output signal the third
broadcast signal when it is determined that said received digital satellite broadcasting signal is in
said second format[[:]]

~~storing a user's information, the user's information being a function of the digital~~
~~satellite broadcasting signal;~~

~~transmitting the user information from the storage means to a broadcast station;~~

~~determining access to the digital satellite broadcasting signal as a function of the~~
~~user information;~~

~~whereby said converting the data structure of the second broadcast signal includes~~
~~rearranging a timestamp and a packet length of a transport stream of the second broadcast signal;~~
and

~~wherein if said received digital satellite broadcasting signal is judged to be in said~~
~~first format, said analog signal is outputted from said analog interface as the output of the digital~~
~~satellite broadcasting signal, and if said received digital satellite broadcasting signal is judged to~~
~~be in said second format, said third broadcast signal is outputted from said digital interface as the~~
~~output of the digital satellite broadcasting signal.~~

7. (Original) The signal receiving method as claimed in claim 6, wherein the
digital satellite broadcast signal is a DSS (Direct Satellite System) broadcast signal, the first

broadcast signal is an SD (Standard Definition) broadcast signal and the second broadcast signal is an HD (High Definition) broadcast signal.

8. (Original) The signal receiving method as claimed in claim 6, wherein said digital interface is an IEEE1394 interface.

9. (Canceled)

10. (Original) The signal receiving method as claimed in claim 6, further comprising an encrypting step of encrypting the third broadcast signal.

11. (Currently Amended) A computer-readable recording medium recorded with a program which is readable by a computer and serves to process a received digital satellite broadcasting signal ~~received~~ which contains ~~at least one of~~ a scrambled first broadcast signal in a first format ~~and or~~ a scrambled second broadcast signal in a second format, said second format having a transport stream exhibiting a data structure including a timestamp and a transport stream packet length, the program controlling the performance of a method comprising the steps of:

extracting said scrambled first broadcast signal or said scrambled second broadcast signal from said digital satellite broadcasting signal;

storing a user's information representing authorization of the user to access the digital satellite broadcasting signal;

transmitting the user information from the storage means to a broadcast station;

descrambling said extracted scrambled first broadcast signal or said extracted scrambled second broadcast signal if said user information represents authorization to access said digital satellite broadcasting signal;

judging whether the received digital satellite broadcasting signal is in the first format or in the second format;

generating an analog signal in accordance with the descrambled first broadcast signal when it is determined that the digital satellite broadcast signal is in the first broadcast signal format;

adding to the analog signal a signal for preventing the analog signal from being copied;

outputting from an analog interface the generated analog signal as the digital satellite output signal when said judging means judges that said received digital satellite broadcasting signal is in said first format;

converting the data structure of the descrambled second broadcast signal by rearranging said timestamp and said packet length of said transport stream of the second broadcast signal if it is determined that the digital satellite broadcast signal is in said second format to generate a third broadcast signal; and

outputting from a digital interface as the digital satellite output signal the third broadcast signal when it is determined that said received digital satellite broadcasting signal is in said second format[[:]]

~~storing a user's information, the user's information being a function of the digital satellite broadcasting signal;~~

~~transmitting the user information from the storage means to a broadcast station;~~

~~determining access to the digital satellite broadcasting signal as a function of the user information;~~

~~whereby said converting the data structure of the second broadcast signal includes rearranging a timestamp and a packet length of a transport stream of the second broadcast signal;~~
~~and~~

~~wherein if said received digital satellite broadcasting signal is judged to be in said first format, said analog signal is outputted from said analog interface as the output of the digital satellite broadcasting signal, and if said received digital satellite broadcasting signal is judged to be in said second format, said third broadcast signal is outputted from said digital interface as the output of the digital satellite broadcasting signal.~~

12. (Canceled)

13. (Currently Amended) The computer-readable recording medium as claimed in claim 11, further comprising an encrypting step of encrypting the third broadcast signal.

14-21. (Canceled)